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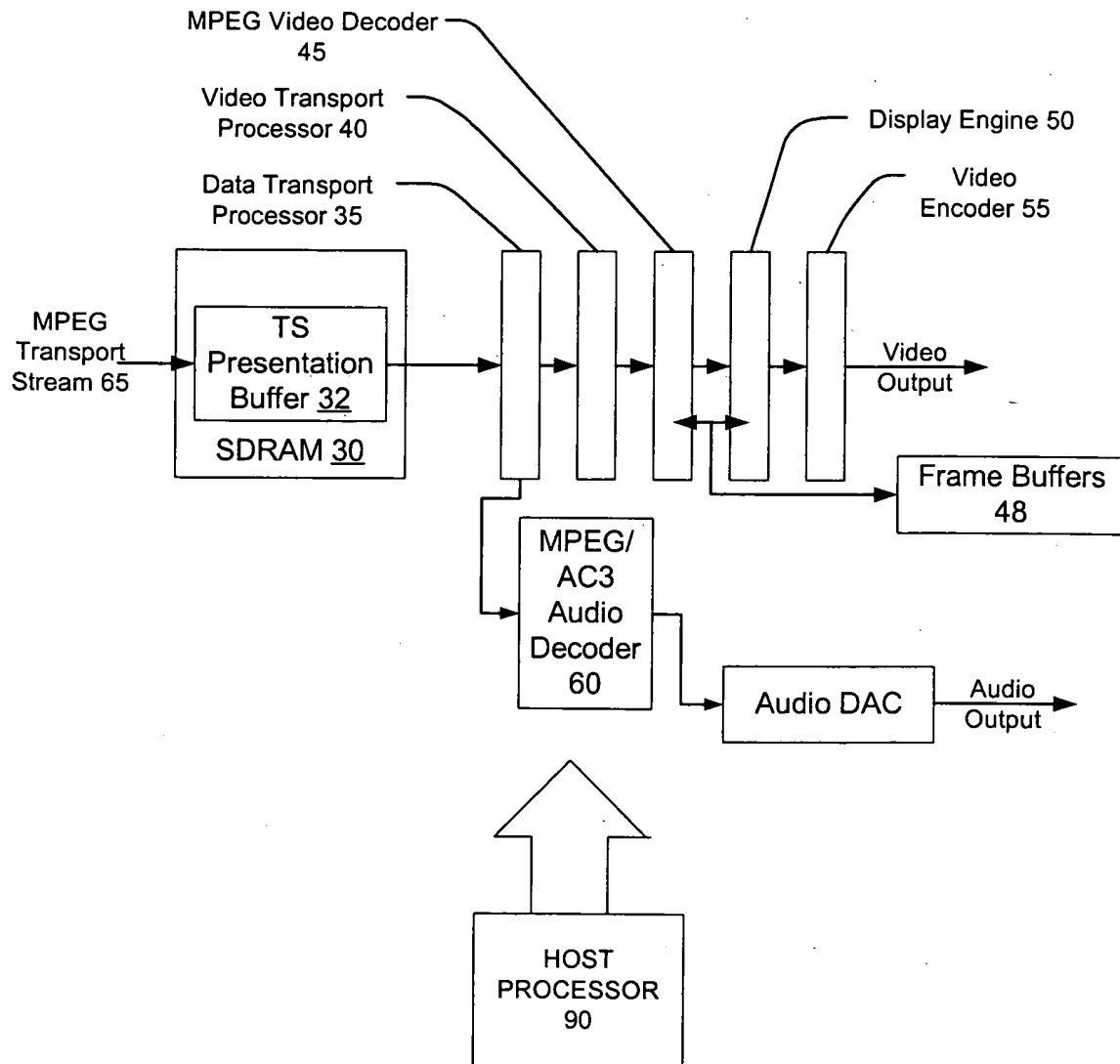


FIG. 1

100 (0)	$Y_0Cr_0Cb_0$	$Y_1$	$Y_2Cr_1Cb_1$	$Y_3$	$Y_4Cr_2Cb_2$	$Y_5$	...	$Y_{x-1}Cr_{(x-1)/2}Cb_{(x-1)/2}$	$Y_x$
100 (1)	$Y_0Cr_0Cb_0$	$Y_1$	$Y_2Cr_1Cb_1$	$Y_3$	$Y_4Cr_2Cb_2$	$Y_5$	...	$Y_{x-1}Cr_{(x-1)/2}Cb_{(x-1)/2}$	$Y_x$
100 (2)	$Y_0Cr_0Cb_0$	$Y_1$	$Y_2Cr_1Cb_1$	$Y_3$	$Y_4Cr_2Cb_2$	$Y_5$	...	$Y_{x-1}Cr_{(x-1)/2}Cb_{(x-1)/2}$	$Y_x$
100 (3)	$Y_0Cr_0Cb_0$	$Y_1$	$Y_2Cr_1Cb_1$	$Y_3$	$Y_4Cr_2Cb_2$	$Y_5$	...	$Y_{x-1}Cr_{(x-1)/2}Cb_{(x-1)/2}$	$Y_x$
:									
:									
100 (N)	$Y_0Cr_0Cb_0$	$Y_1$	$Y_2Cr_1Cb_1$	$Y_3$	$Y_4Cr_2Cb_2$	$Y_5$	...	$Y_{x-1}Cr_{(x-1)/2}Cb_{(x-1)/2}$	$Y_x$

FIGURE 2

48Y(0)	$Y_0, Y_1, Y_2, \dots, Y_{15}$
48Y(1)	$Y_{16}, Y_{17}, Y_{18}, \dots, Y_{31}$
:	
48Y(i)	$Y_{16i}, Y_{16i+1}, Y_{16i+2}, \dots, Y_{16i+15}$
:	

48Y

48C(0)	$Cb_0, Cb_1, Cr_0, Cr_1, \dots, Cr_6, Cr_7$
48C(0)	$Cb_8, Cb_9, Cr_8, Cr_9, \dots, Cr_{14}, Cr_{15}$
:	
48C(i)	$Cb_{8i}, Cb_{8i+1}, Cr_{8i}, Cr_{8i+1}, \dots, Cr_{8i+6}, Cr_{8i+7}$
:	

48C

FIGURE 3A

$$U_i \Rightarrow \boxed{Y_{2i}Cr_i \ Y_{2i+1}Cb_i}$$

48(0)	$U_0, U_1, U_2, U_3$
48(1)	$U_4, U_5, U_6, U_7$
48(2)	$U_8, U_9, U_{10}, U_{11}$
:	
48(i)	$U_{4i}, U_{4i+1}, U_{4i+2}, U_{4i+3}$

**FIGURE 3B**

48Y(0)	$Y_0, Y_1, Y_2, \dots, Y_{15}$
48Y(1)	$Y_{16}, Y_{17}, Y_{18}, \dots, Y_{31}$
:	
48Y(i)	$Y_{16i}, Y_{16i+1}, Y_{16i+2}, \dots, Y_{16i+15}$
:	

48Y

48R(0)	$Cr, Cr, \dots, Cr$
:	
48R(i)	$Cr, Cr, \dots, Cr$
:	

48CR

48R(0)	$Cb, Cb, \dots, Cb$
:	
48R(i)	$Cb, Cb, \dots, Cb$
:	

48CB

**FIGURE 3C**

$b_{127...120}$	$b_{119...112}$	$b_{111...104}$	$b_{103...96}$	$b_{95...88}$	$b_{87...80}$	$b_{79...72}$	$b_{71...64}$	$b_{63...56}$	$b_{55...48}$	$b_{47...40}$	$b_{39...32}$	$b_{31...24}$	$b_{23...16}$	$b_{15...8}$	$b_{7...0}$		
$Cb_0$	$Y_0$	$Cr_0$	$Y_1$	$Cb_1$	$Y_2$	$Cr_1$	$Y_3$	$Cb_2$	$Y_4$	$Cr_2$	$Y_5$	$Cb_3$	$Y_6$	$Cr_3$	$Y_7$		
$U_{4i}$			$U_{4i+1}$				$U_{4i+2}$									$U_{4i+3}$	

FIGURE 4A

b127...120	b119...112	b111...104	b103...96	b95...88	b87...80	b79...72	b71...64	b63...56	b55...48	b47...40	b39...32	b31...24	b23...16	b15...8	b7...0
Y1	Cr0	Y0	Cb0	Y3	Cr1	Y2	Cb1	Y5	Cr2	Y4	Cb2	Y7	Cr3	Y6	Cb3
U4i				U4i+1				U4i+2				U4i+3			

FIGURE 4B

$b_{127} \dots b_{120}$	$b_{119} \dots b_{112}$	$b_{111} \dots b_{104}$	$b_{103} \dots b_{96}$	$b_{95} \dots b_{88}$	$b_{87} \dots b_{80}$	$b_{79} \dots b_{72}$	$b_{71} \dots b_{64}$	$b_{63} \dots b_{56}$	$b_{55} \dots b_{48}$	$b_{47} \dots b_{40}$	$b_{39} \dots b_{32}$	$b_{31} \dots b_{24}$	$b_{23} \dots b_{16}$	$b_{15} \dots b_8$	$b_7 \dots b_0$
$Y_{16i}$	$Y_{16i+1}$	$Y_{16i+2}$	$Y_{16i+3}$	$Y_{16i+4}$	$Y_{16i+5}$	$Y_{16i+6}$	$Y_{16i+7}$	$Y_{16i+8}$	$Y_{16i+9}$	$Y_{16i+10}$	$Y_{16i+11}$	$Y_{16i+12}$	$Y_{16i+13}$	$Y_{16i+14}$	$Y_{16i+15}$
$U_{4i}$				$U_{4i+1}$				$U_{4i+2}$				$U_{4i+3}$			

**FIGURE 5A**



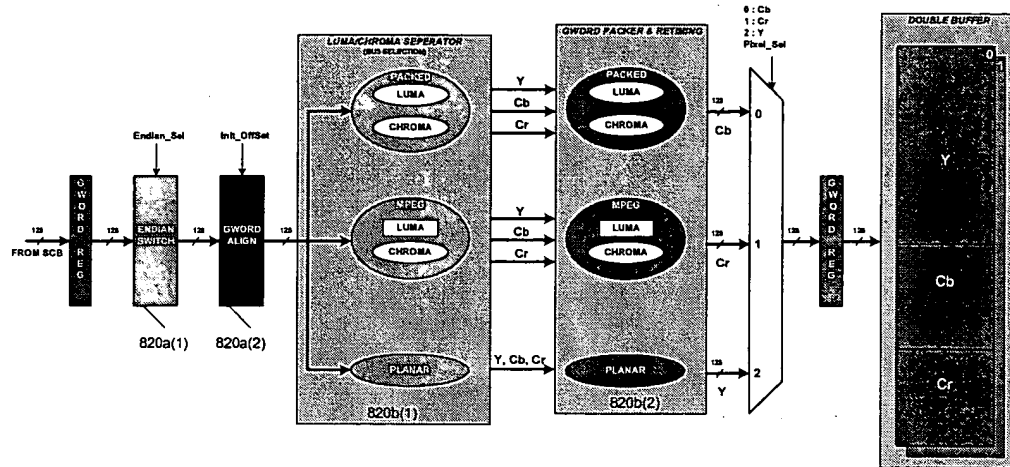


FIGURE 8

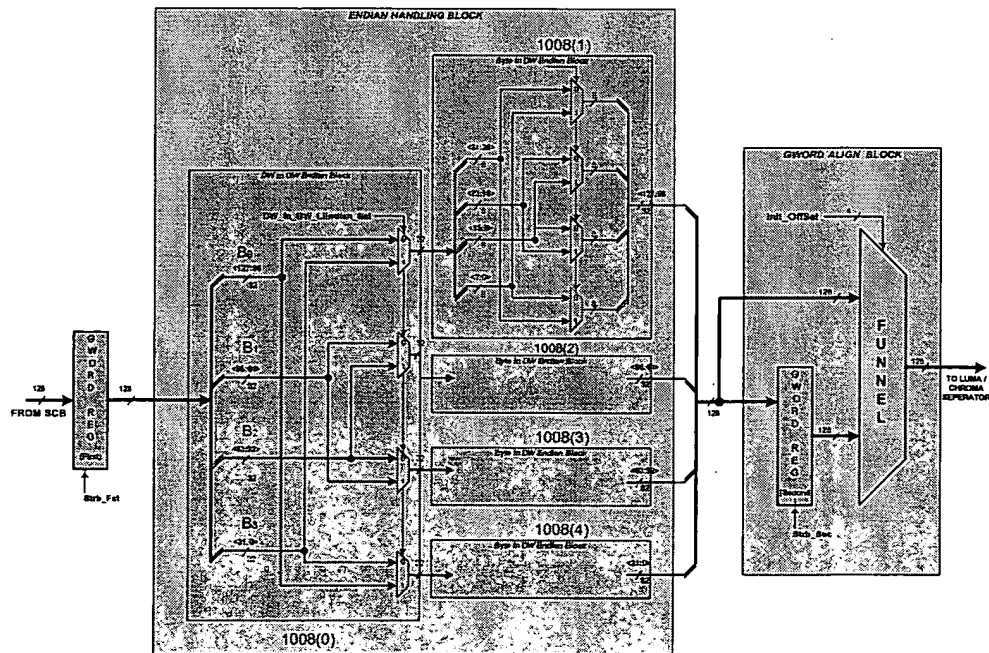
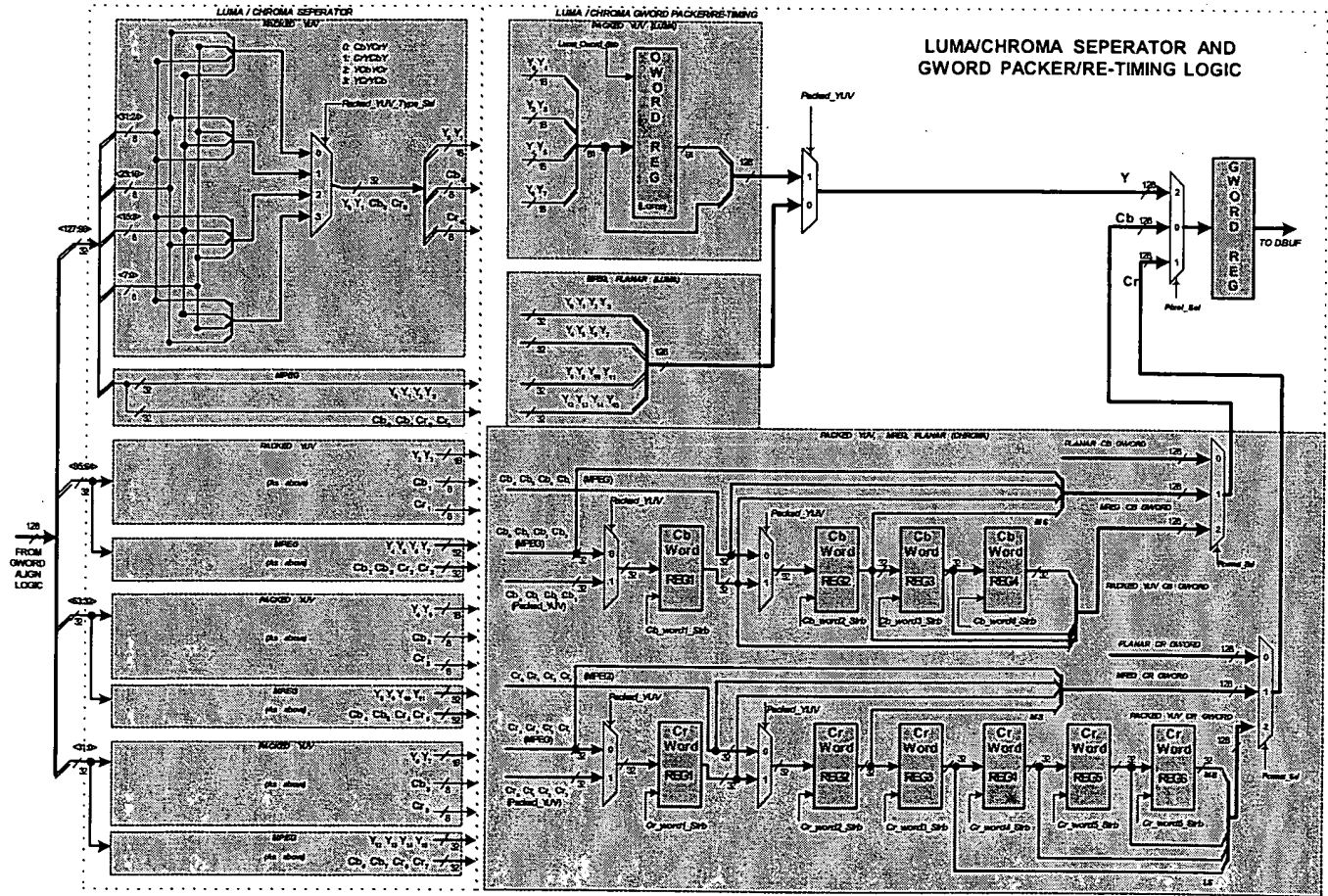


FIGURE 9





**FIGURE 10**